CMSY-199
Introduction to Java
Fall 2011
Course Syllabus

Instructor: Michael L. Miller
E-mail: mikemiller@howardcc.edu
Meeting Room: DH-323
Meeting Time: M: 6:00 - 9:50 PM

Course Description: This course provides an introduction to the Java programming language. Topics include input/output, data types, operators, control statements, methods, the Java API, arrays, classes, objects, interfaces, and exception handling. The object-oriented programming paradigm and design principles will be emphasized throughout the course. (3 Credits)

Prerequisite: CMSY-141 or CMSY-181 or CMSY-190.

Textbook: Java How To Program, 9ᵗʰ Edition, by Paul Deitel and Harvey Deitel

Materials: USB Flash Drive

Teaching Methods: Classroom lectures, demonstrations, and student lab time.

Classroom Atmosphere: No eating or drinking in the classroom. Please silence your cell phone.

Grades: The course is based on a point system.
Programming Assignments - 100 pts. each
Tests - 200 pts. each

Your final grade will be computed by the formula:
Grade = ((Total Points Earned) / (Total Points Possible)) * 100%

Letter grades will be assigned as follow:
A = 90 - 100% B = 80 - 89% C = 70 - 79% D = 60 - 69% F = Below 59%

Turning in Assignments: Assignments will be submitted electronically using the Canvas course website on or before the due date.

Late Assignments: Late assignments are not accepted.

Make-up Tests: Make up tests are given only when verifiable emergencies prevent you from being in class on test day. You must contact me as soon as possible and no later than before the next class meeting after the test day to schedule a make-up.

Attendance: Class attendance is required. If you miss a class, you are responsible for the material that was covered (including any assignments/tests) on that day.

Contact: Please contact me by email if you have any questions. I will strive to give you a response within 24 hours.

Upon completion of this course, the student will be able to:
1. Develop, compile, and run Java programs of moderate complexity.
2. Prepare programs that use primitive data types.
3. Prepare programs that include console and file I/O using classes from the java.io package.
4. Demonstrate an understanding of decision and looping control statements.
5. Implement methods and demonstrate an understanding of access modifiers, return types, argument passing, overriding, and overloading.
6. Demonstrate an understanding of arrays and the collection class ArrayList.
7. Demonstrate an understanding of String class.
8. Demonstrate an understanding of object-oriented programming (OOP) paradigm including inheritance and polymorphism.
9. Demonstrate and understanding of exception handling.
10. Demonstrate an understanding of Java's Swing GUI APIs.

Academic honesty, as defined in the student handbook, is required of all students.

Please review HCC's Academic Standards Policy in the student handbook.
http://www.howardcc.edu/students/academic_support_services/retention_services/academ_stand_appeal.htm

Schedule:
The following is a tentative schedule that is subject to change:

Date	Class Activity	Topic
Aug. 29	Ch. 1, Ch. 2	Java Applications
Sep. 5	Labor Day	
Sep. 12	Ch. 3	Intro. to Classes and Objects
Sep. 19	Ch.4	Control Statements
Sep. 26	Ch. 5	Control Statements
Oct. 3	Ch. 6	Methods
Oct. 10	Ch. 7	Arrays and ArrayLists
Oct. 17	Ch. 16	Strings
Oct. 24	Midterm, Ch. 8	
Oct. 31	Ch. 8	Classes and Objects
Nov. 7	Ch.9	OOP: Inheritance
Nov. 14	Ch. 10	OOP: Polymorphism
Nov. 21	Ch. 11	Exception Handling
Nov. 28	Ch. 17	File I/O
Dec. 5	Ch. 14	Swing
Dec. 12	Final Exam	DH-323, 6-8 pm

Division Outcomes: The following outcomes are instilled in various courses throughout each associate degree program in the Business and Computer Systems Division. By completion of a program, each graduate of the Division is expected to have achieved these outcomes. They serve as the basis for transfer to a baccalaureate program and functioning in a business career.

1. Engage in an actual business setting (real-time, real-life experience) in order to develop a practical understanding of how to function within that setting.
2. Communicate effectively and deliver professional oral and written presentation(s) in various business settings.
3. Operate in an ethical, professional manner consistent with the career field.
4. Function in an up-to-date technological environment, consistent with the chosen career field.
5. Demonstrate understanding of financial foundations of business operations.
6. Demonstrate the ability to think critically (problem-solve, be creative, make decisions).
7. Function as a team member and leader in a cooperative and goal-directed manner.
8. Use accepted data-gathering and analysis techniques.
9. Incorporate awareness of global impacts on commerce and business.
10. Demonstrate an openness to change and be able to function in an environment of change.